Appendix A Asbuilt Drawings and Layer Thickness Measurements

Appendix A

Asbuilt Drawings and Layer Thickness Measurements

This appendix contains the layer contour elevation asbuilt drawings and the layer thickness measurements.

Asbuilt Drawings—The asbuilt drawings show contour elevations for the top of the following engineered barrier layer:

- SL-1 Consolidated soils layer asbuilt
- SL-1 4 in. pea gravel layer asbuilt
- SL-1 Cobble layer asbuilt
- SL-1 6 in. pea gravel layer asbuilt
- SL-1 Rip-rap layer asbuilt
- SL-1 Asbuilt cross sections
- BORAX-I Consolidated soils layer asbuilt
- BORAX-I Rip-rap layer asbuilt.
- BORAX-I Asbuilt cross section

Layer Thickness Field Measurements—The field crew consisting of the Subcontractor jobsite supervisor, HSO and/or laborer, and the Parsons CE performed layer thickness measurements to ensure layers were of proper thickness prior to proceeding with installation of the next layer. Pin flags were placed where additional materials needed to be placed. After repair was made these areas were measured again. The thickness shown in this appendix are the final measurements. Notes regarding the repairs are in the CE force reports and Subcontractor daily logs located in the project files.

Measurement data points were located 30 m (100 ft) apart in the E-W direction and approximately 4.6 m (15 ft) apart in the N-S direction beginning with the north top of slope, center, and south top of slope, or otherwise as noted on the data sheets.

Rip-rap field thickness measurements were recorded for Pit 1, the first area where rip-rap was installed; however, repair proved difficult due to hand carrying the repair rocks. For follow on rip-rap placement, rip-rap was added as needed while the trackhoe was within reach of the repair location. Notes regarding the remaining rip-rap thickness verification are recorded in the daily follow-up inspection forms located in the project files, vendor data item No. 3-08.

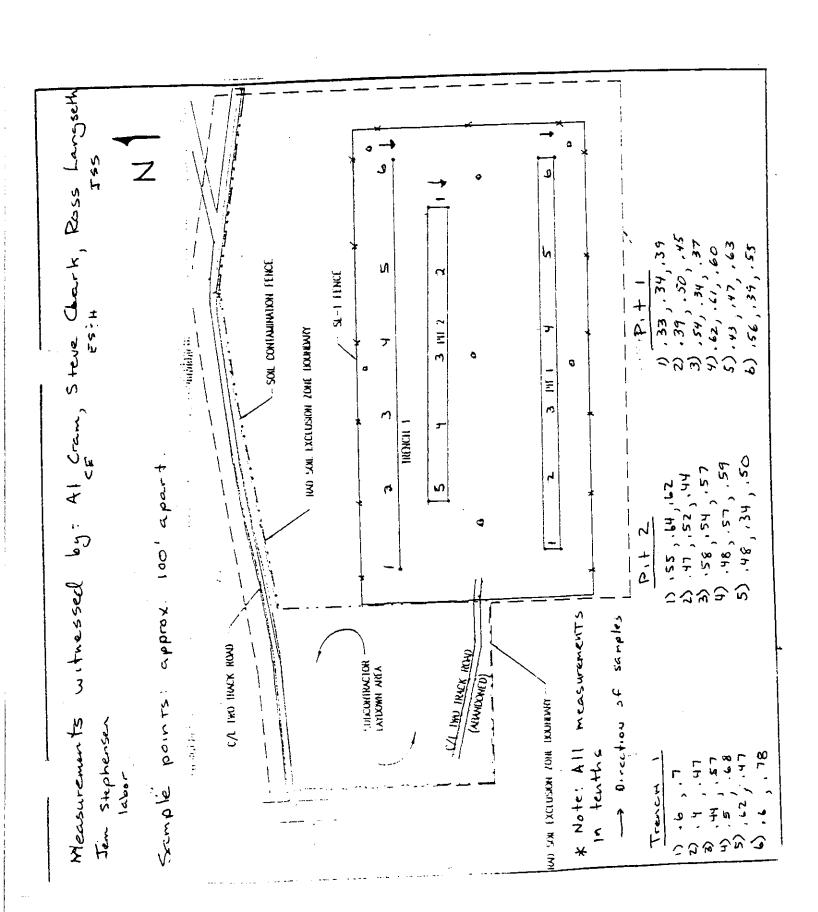
Repair of the layers was required as follows:

- SL-1 10 cm (4 in.) pea gravel biotic barrier—three areas required repair. Additionally, the pea gravel did not extend completely over Trench 1 and Pit 2 as required. These two areas were also repaired (page A-4)
- SL-1 30 cm (12 in.) cobble rock layer—two large areas and four small areas required additional cobble
- SL-1 15 cm (6 in.) pea gravel biotic barrier—four areas required repair
- SL-1 rip-rap—estimated 65 places required additional rocks.

The tabulation in Table A-1 shows the required thickness, minimum thickness measured, and average thickness of each layer.

Table A-1. Layer thickness.

	Minimum Measured						
Layer	Required Thickness (m [ft])	Thickness (m [ft])	Average Thickness (m [ft])				
SL-1 10 cm (4 in.) pea gravel	0.1 (0.33)	0.1 (0.33)	0.15 (0.49)				
SL-1 cobble	0.3 (1.0)	0.3 (1.0)	0.34 (1.11)				
SL-1 15 cm (6 in.) pea gravel	0.15 (0.50)	0.15 (0.50)	0.2 (0.67)				
SL-1 rip-rap, Pit 1	0.6 (2.0)	0.6 (2.0)	0.66 (2.18)				





FIELD ACTIVITY DAILY LOG

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54-1 OJECT NAME PROJECT NO FIELD ACTIVITY SUBJECT: Peagravel thickness OF EXTRA GRAVEL ADDED DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: OH NORTH & SOUTH SIDE SLOPE OF CONSOLIDATED SOIL BETWEEN TRENCH NOTE: MEGSHEAMENTS IN JENTHS 1 4 PIT 2. $P_1 + 2$ TRENCH 1 1) ,37 1) . 55 (A) .4/ /A) .37 / A 1A 18) , 33 18) .44 18 10 2) .35 2) . 33 2 2 24) .34 24) ,35 .38 28) .41 28) 28 23 .33 3) 3),33 3 3 . 41 3A) .42 3A) 3 A 3A 33 3B) .44 381 38 4) :42 4) .41 ÿ 7 4A] . 33 4A) ,40 41 48) .35 48) ,34 48 48 5) .54 5) .49 5A) , 33 5 A .33 NOTE: Measurements taken 2' North 5B) 5B from edge of pit and distance ,44 50 between measurements approx. ,51 3.5 NOTE: MEASUREMENTS TAKEN AT
31/2 From & of French and distance between measurements approx. 33' VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. **WEATHER CONDITIONS:** IMPORTANT TELEPHONE CALLS: IT PERSONNEL ON SITE SIGNATURE 9/23/95 DATE:



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FIELD ACTIVITY DAILY LOG

JECT NAME 54-1	PROJECT NO
	P.+
Note: ALL measurements in ho 100' apart Vitness: AL Cram - Parsons Stove Clark - IT Co Ross Langseth - IT C	
Pit 1 (NTS)	
6) 1.15,1.25	
5) 1.1, 1.0	
4) 1.05, 1.0	
3) 1.15, 1.15	
2) 1.15, 1.2	
1) 1.1, 1.3	
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS
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SIGNATURE TO SITE	DATE: 9/24/96
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FIELD ACTIVITY DAILY LOG

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OJECT NAME	らんし		PROJECT	NO. 767662
	IBJECT: 6061c me		ickness	(P.t2: Trenchl.
	AILY ACTIVITIES AND EVENTS			
	neasurements IN	tenths and	ih ic kness	checked every
	Al Cram - Parson	15		
	Steve Clark - IT	Corp		Z
ß	Ross Langseth - IT	Corp		
T.			241	
176	nch 1		P, + 2	
i s .	6) 1.0,1.2		5	5) 1.0, 1.1
5	5) 1.2, 1.1		4	4) 1.2,1.1
4	4) 1.15, 1.1		3	3) 1.05, 1.1
3	3) 1.0,1.1		2	2) 1.2,1.1
2	2) 1.1 , 1.0		<i>i</i>	1) 1.15,1.1
1	1) 1.0 , 1.15			
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FIELD ACTIVITY DAILY LOG

AOJECT NAME				PROJECT NO.	
FIELD ACTIVITY	SUBJECT: P.	+ 1 2	O layer Pea Gro	wel measurement	
DESCRIPTION OF	F DAILY ACTIV	TIES AND EVE	TS:	••	Ì
Note:	measurem	ents in	inches and	taken approx. every	100'
witness:	AL Cro	im - Par	5005		
	Steve C.	lark- it	Corp		
		ngseth-		Z	İ
		,	/		
Pit 1					
	6 •	6) 7	, 9", 9", 8"		
	5 .	5) 8	, 7", 7", 8"		
					}
	4 .	4) 11	, 6",8",6"		
	3 •	3) 8"	7",8",11"		
	2 •	2) 8",	8", 6½", 8"		
	, .	1) 10"	13",11",6"		
VISITORS ON S	SITE:		CHANGES FROM PLA OTHER SPECIAL ORD	NS AND SPECIFICATIONS, AND ERS AND IMPORTANT DECISIONS.	
WEATHER COND	DITIONS:		IMPORTANT TELEPH	ONE CALLS:	

IT PERSONNEL ON SITE

SIGNATURE

DATE: 9/21/96



SIGNATURE

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FIELD ACTIVITY DAILY LOG

PROJECT NAME SL-1	PROJECT NO. 767662
FIELD ACTIVITY SUBJECT: Pitz 2"	O Lift Pea aravel
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	
Note: all measurements taken approx. 100 Witness: AL Cram - Par Ross Langseth-	'A INCHES and Measurements 'apart -sons Environmental 17 Corp
F, f 2 5. 5)7",	8½",8"
4 • 4) 8",8	; ", 8" ''
3 • 3) 7",8"	", 10"
2。2)75%	7", 10 2"
, ・ ク ァッフ	", 8½"
VICITORS ON SITE.	CHANGES FROM PLANS AND SPECIFICATIONS, AND
VISITORS ON SITE:	OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
IT PERSONNEL ON SITE	

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9/30/96

DATE:



		FIELD A	ACTIVITY DAILT LOG
OJECT NAME	54-1		PROJECT NO.
FIELD ACTIVITY S	UBJECT:	Trench 1	2 no lift pea gravel measurements
DESCRIPTION OF	DAILY ACTI	VITIES AND EVEN	ITS:
NO TE:		measurem apart	ients in inches and taken approx.
Witness:			Parsons ES
			IT Corp. Z
Tren	C 14		
	É	<i>b)</i> 8	72", 82", 9"
	5	5) 11	, ", 8", 8"
	¥	4) 4	7", 9", 6"
	.3	3) 6:	Ž", 6½", 7"
	2	2) 8	", 7", 7°
	,	1) 7"	′, 7″, 6″
VISITORS ON SIT	TE:		CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
WEATHER CONDIT	TONS		IMPORTANT TELEPHONE CALLS:

SIGNATURE



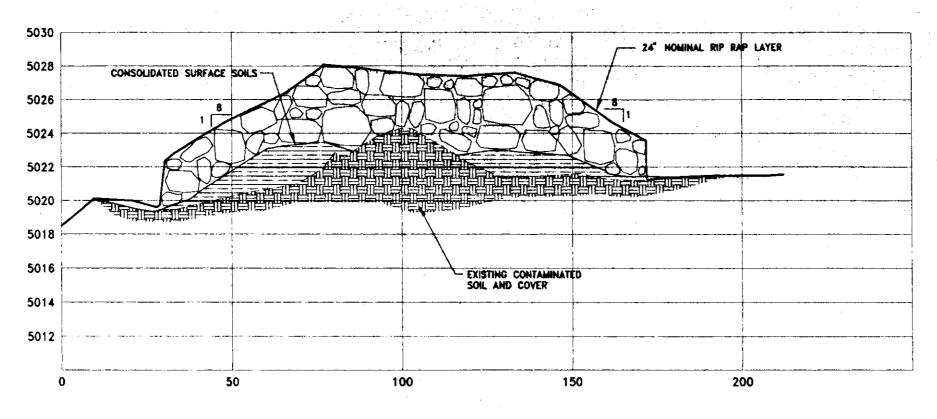
DATE: 10/2/96



FIELD ACTIVITY DAILY LOG

ROJECT NAME 5L-/	PROJECT NO. 767662
	N OF RIP RAP PITI
ESCRIPTION OF DAILY ACTIVITIES AND EVE	
Note: Depth checks made ap !tness: AL Cram - Parsons E Ross Lungseth - IT Co	
Pit1 6.	,26",24"
5 • 5) 34"	A WORK MAY PROCEED CUSHEST TO HISCORPORATION OF COLIMIENTS 24", 26" B REVISE AND RESUDENT
4 • 4) 26",	
3 · 3) 29",2	CONTRACT NO. 5 - 760001-117
2 • 2) 24",	The state of the s
1) 24",	25 '' _, 25 ".
Inspected AREA, found 5 pl. Spots in.	laces where there were voios, filled these
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
NEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
IT PERSONNEL ON SITE	
SIGNATURE A	DATE: 10/21/96

BORAX-I LANDFILL



SECTION A

SCALE: 1" = 20' HORZ. 1" = 4' VERT.

LEGEND

24" NOMINAL RIP RAP LAYER



CONSOLIDATED SURFACE SOILS



EXISTING CONTAMINATED SOIL AND COVER

SURVEYORS CERTIFICATE

I, Kim H. Leavitt, a Registered Professional Land Surveyor in the State of Idaho do hereby certify that this plat is an occurate representation of the survey completed under my supervision.

Kigh H. Leowitt License No. 4563 Date



	EV#	REVISIONS			Demost N	MATE	Lockheed
<u> </u>					APPROVED:		BORAX-I & SL-1 BURIAL GROUNDS BORAX + ASBURIT CROSS SECTION
BARPER LEAVITY ENGINEERING, INC.			DA	n	CHECKED: DRAWN: MU DESIGN: SURVEY DATE:	7.779	BRY-MSC.DWG

